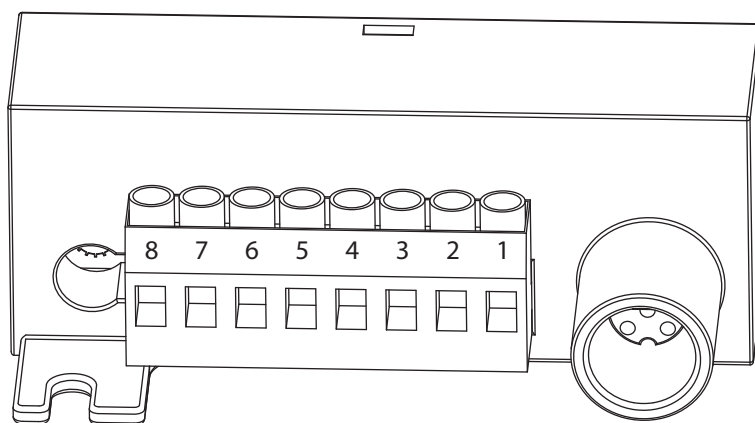




WE MAKE THE WORLD MOVE



User Manual

Interroll DriveControl

DC-EC200

DC-EC300

Manufacturer's address

Interroll Engineering GmbH
Hoeferhof 16
D-42929 Wermelskirchen
Tel. +49 2193 23 0
Fax. +49 2190 2022
www.interroll.com

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Introduction

Information about the operating instructions

In this manual the DriveControls DC-EC200 and DC-EC300 are referred to as DC-EC200/300.

Contents

This manual contains important advice, notes and information about the DC-EC200/300 in all phases of its lifecycle:

- Transport, assembly and start-up
- Safe operation, maintenance and troubleshooting, disposal
- Accessories

Validity of the manual

The manual describes the DC-EC200/300 as it is delivered by Interroll.

In addition to this manual, special contractual agreements and technical documents apply to special versions.

The manual is part of the product

- For trouble-free, safe operation and warranty claims, read the manual and follow the instructions before handling the DC-EC200/300.
- Keep the manual near to the DC-EC200/300.
- Pass the manual on to any subsequent operator or occupant of the DC-EC200/300.
- Interroll does not accept any liability for malfunctions or defects due to non-observance of this manual.
- If you have any questions after reading the operation manual, feel free to contact our customer service. See the last page for your local contact.

Warnings in this manual

The warnings in this document refer to risks which may arise while using the DC-EC200/300. For relevant warnings, see *"Safety", page 4* and the warnings at the beginning of each chapter.

There are three categories of danger. The following signal words are used in the document as required:

- Danger
- Warning
- Caution

Signal word	Meaning
Danger	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
Warning	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
Caution	Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.

Structure of warnings

	 DANGER
Nature and source of the hazard Possible consequence of non-observance ➤ Information about how to avoid the hazard.	

Introduction

Further symbols

NOTICE

This symbol identifies possible material damage.

➤ Information about how to avoid damage.



This symbol displays safety instructions.



This symbol marks useful and important information.

➤ This symbol marks the steps that have to be carried out.

Safety

General safety instructions

The DC-EC200/300 is designed according to the technical state of the art and is reliable in operation, once distributed. However, risks may still arise.

- Risks of physical injury to the user or bystanders.
- Adverse effects of the DriveControl and other material.



Disregarding the warnings in this manual may lead to serious injury.

- Always read the entire operating and safety instructions before starting to work with the DriveControl and follow the information contained herein in full.
- Only instructed and qualified persons may work with the DriveControl.
- Always keep this user manual at hand when working on the DriveControl so that you can consult it quickly if required.
- Always comply with relevant national safety regulations.
- If you have any questions after reading this user manual, feel free to contact our customer service. See the last page for contact information.

Intended use

The DC-EC200 may only be used for industrial applications and in an industrial environment to control one of the following RollerDrives:

- RollerDrive EC200 (12:1, 16:1, 36:1, 48:1, 64:1)
- RollerDrive EC300 (13:1)

The DC-EC300 may only be used for industrial applications and in an industrial environment to control one of the following RollerDrives:

- RollerDrive EC200 (36:1 E)
- RollerDrive EC300 (7.85:1)

It must be integrated in a conveyor module or a conveying system. Any other use is not permitted.

Any changes that affect the safety of the product are not allowed.

The DC-EC200/300 may only be used within the given operation limits.

Unintended use

Applications not according to the intended use of the DC-EC200/300 require approval from Interroll.

Qualified persons

Qualified persons are persons who read and understand the manual and, taking national regulations into account, can competently execute incidental work.

Only instructed and qualified persons may work with the DriveControl, taking the following into account:

- the relevant manuals and diagrams,
- the warning and safety instructions in this manual,
- the system specific regulations and requirements,
- national or local regulations and requirements for safety and accident prevention.

Safety

Dangers



The following list informs you about the various types of danger or damage that may occur while working with the DC-EC200/300.

Persons

- Maintenance or repair work must only be executed by authorized and qualified persons in accordance with the applicable regulations.
- Before using the DriveControl, ensure that no unauthorized persons are near the conveyor.

Electricity

- Only perform installation and maintenance work after you have switched off the power.
- Ensure that the power cannot be turned on accidentally.

Working environment

- Do not use the DriveControl in explosive environments.
- Always remove materials and objects which are not required from the work area.

Malfunctioning during operation

- Regularly check the DriveControl for visible damage.
- In case of fumes, turn off the power at once and ensure that it cannot be turned on accidentally.
- Contact qualified personnel immediately to find the source the malfunction.

Maintenance

- As the product is maintenance free, you only need to check the DriveControl regularly for visible damage and that all leads and screws are still tightened.

Interfaces

By assembling the DriveControl in a conveyor module, potential hazards may occur. These are not described in this manual and have to be analyzed during the design, installation, and startup of the conveyor module.

- After assembling the DriveControl in a conveyor module, check the whole system for any new potential dangerous condition prior to turning on the conveyor.

Operating modes

Normal mode

Operation of the installed device at the end customer's as a component in a conveyor in a complete system.

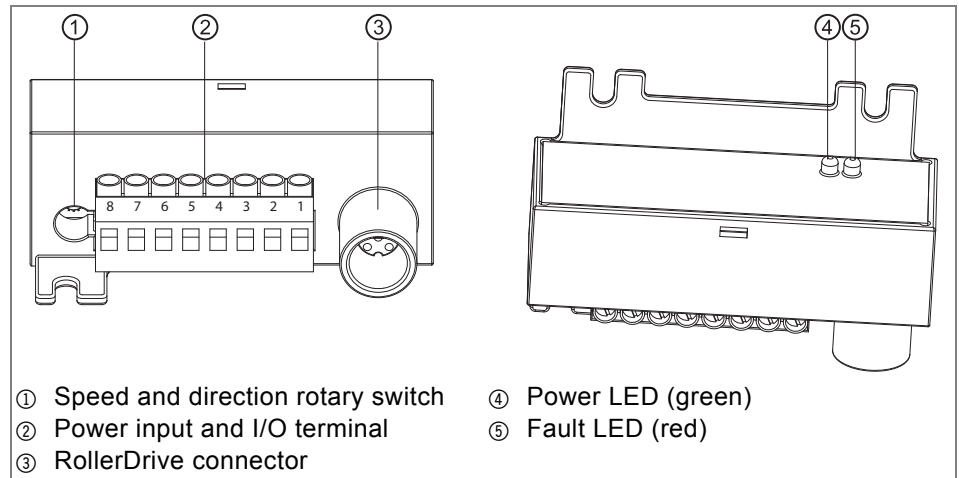
Special mode

All operating modes which are required to guarantee and maintain safe and normal operation.

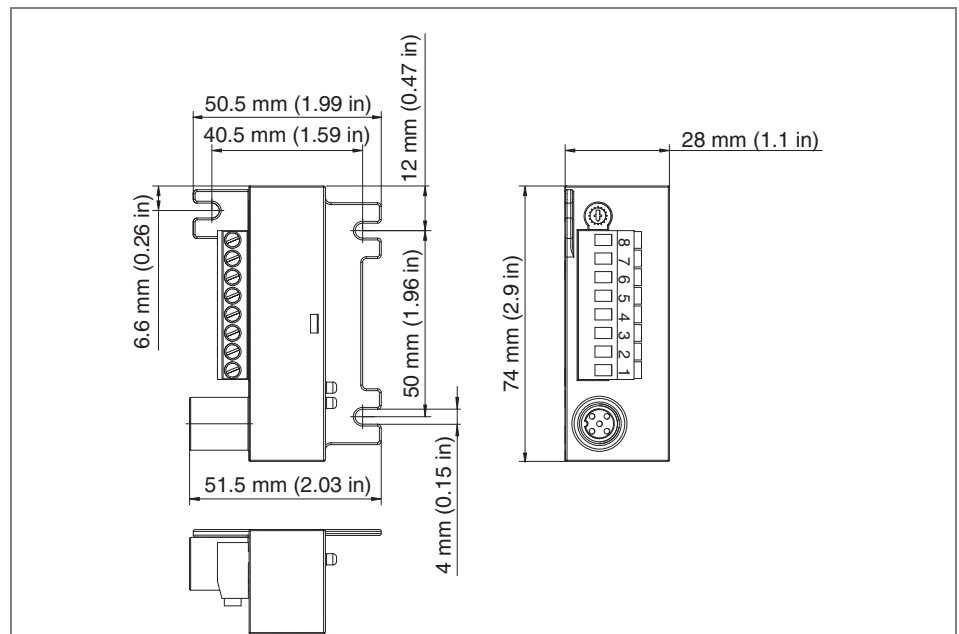
Special operating mode	Explanation	Comment
Transport/Storage	Loading and unloading, transport and storage	-
Assembly/Initial start-up	Installation at the end customer's and performing the test run	When de-energized
Cleaning	External cleaning	When de-energized
Maintenance/Repairs	Maintenance and inspection tasks	When de-energized
Troubleshooting	Troubleshooting in the event of a fault	When de-energized
Fault elimination	Eliminating the fault	When de-energized
Shut-down	Dismantling from the conveyor	When de-energized
Disposal	Disposal of DriveControl and packaging	-

Product information

Components



Dimensions



Product information

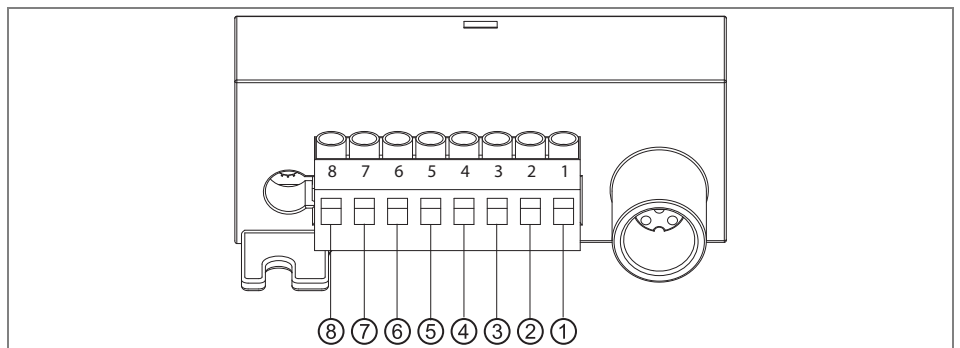
Product Description

The DC-EC200/300 must be used in conjunction with a RollerDrive (see *"Intended use"*, page 4). It is the interface to the power supply, and allows run commands to be entered and the speed and direction of transport to be controlled via a switch or PLC.

Functions

- LEDs show the power status and faults.
- All IO interfaces are electrically isolated, with bipolar accessibility via a PLC. NPN and PNP are possible.
- The DC-EC200/300 is equipped with an active protection system against incorrect polarity.

Inputs and Outputs



- ① **Power +24 VDC:** Main power supply (voltage range see *"Technical data"*, page 8)
- ② **Power GND:** Must be connected to the main power ground
- ③ **Start IN1:** Must be connected to signal +24 VDC (e. g. PLC output)
- ④ **Start IN2:** Must be connected to signal ground (e. g. PLC ground)
- ⑤ **Direction IN1:** Must be connected to signal +24 VDC (e. g. PLC output) for external direction setting
- ⑥ **Direction IN2:** Must be connected to signal ground (e. g. PLC ground) for external direction setting
- ⑦ **Fault OUT1:** Power supply for fault detection (max. 30 VDC)
- ⑧ **Fault OUT2:** Input PLC (logic high at no fault)



Due to the galvanic separated outputs of pin 3, 4, 5 and 6 the Start IN1 can be interchanged with Start IN2 and Direction IN1 can be interchanged with Direction IN2.

Meaning of the LEDs

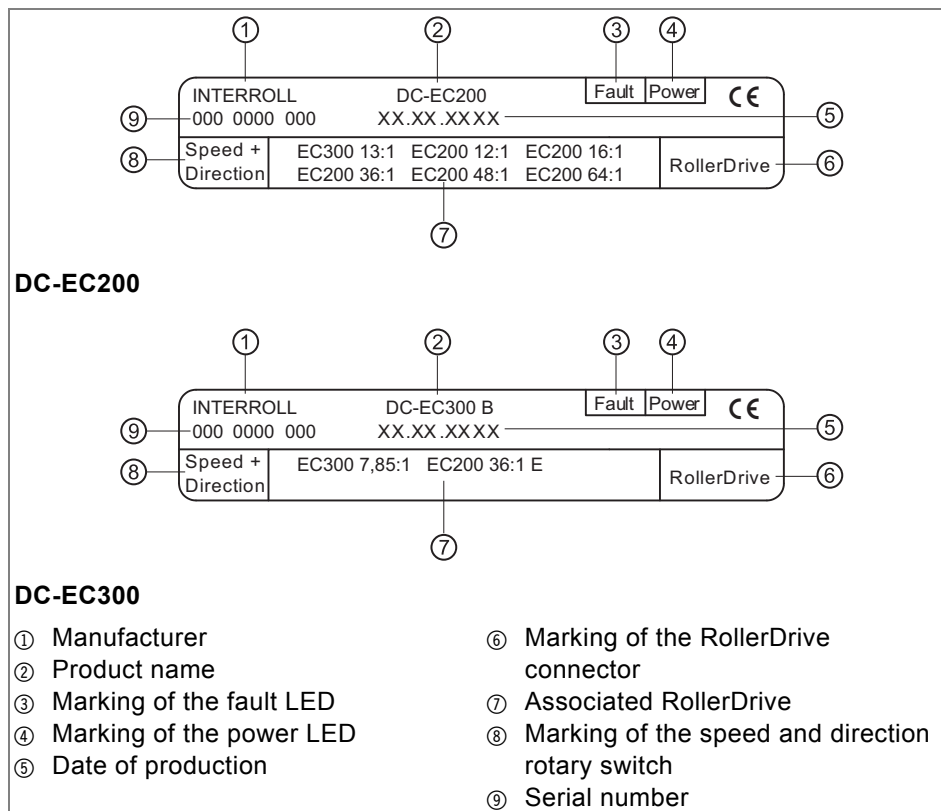
The LEDs provides motor and power status. The following table shows the meaning of the LEDs.

LED	Color	Status	Meaning
Power	green	on steady	Power OK
Fault	red	on steady	Motor fault or motor is disconnected

Product information

DC-EC200/300 Label

The specifications on the DriveControl label are used to identify the DC-EC200/300. This is required to use the DriveControl as intended. Moreover the positions of the DriveControl elements are marked on the label.



Technical data

Nominal voltage	24 VDC
Voltage range	18 to 30 VDC
Voltage ripple tolerance	< 5%, < 1% recommended
Continuous current input	4 A
Peak current output	4 A
Fuse	4 A slow blow
Protection classification	IP40
Ambient temperature for operation	0 °C to 40 °C (32 °F to 104 °F)
Ambient temperature for transport and storage	-20 °C to 75 °C (-4 °F to 167 °F)
Ambient temperature changes	max. 1 °K/min; 3 h; two cycles according to IEC 68-2-14
Ambient humidity	max. 90% not condensing
Installation altitude above sea level	max. 1000 m (max. 3300 ft)

Product information

Speed settings DC-EC200

Position of the speed and direction rotary switch	Speed of transport [m/s (ft/min)]						Rotation direction of the RollerDrive
	EC200 12:1	EC200 16:1	EC200 36:1	EC200 48:1	EC200 64:1	EC300 13:1	
0	0.98 (192.7)	0.74 (145.6)	0.33 (64.2)	0.25 (49.2)	0.18 (36.1)	1.23 (242)	
1	0.98 (192.7)	0.74 (145.6)	0.33 (64.2)	0.25 (49.2)	0.18 (36.1)	0.92 (181)	
2	0.75 (147.2)	0.56 (110.4)	0.25 (49.1)	0.19 (36.8)	0.14 (27.6)	0.68 (133)	
3	0.56 (110.4)	0.42 (82.8)	0.19 (36.8)	0.14 (27.6)	0.11 (20.7)	0.52 (102)	
4	0.41 (80.1)	0.31 (60.1)	0.14 (26.7)	0.10 (20.0)	0.08 (15.0)	0.38 (74)	
5	0.30 (58.5)	0.22 (43.8)	0.10 (19.5)	0.07 (14.6)	0.06 (11.0)	0.27 (53)	
6	0.21 (41.1)	0.16 (30.9)	0.07 (13.7)	0.05 (10.3)	0.04 (7.7)	0.19 (37)	
7	0.14 (28.1)	0.11 (21.1)	0.05 (9.4)	0.04 (7.0)	0.03 (5.3)	0.12 (23)	
8	0.98 (192.7)	0.74 (145.6)	0.33 (64.2)	0.25 (49.2)	0.18 (36.1)	1.23 (242)	
9	0.98 (192.7)	0.74 (145.6)	0.33 (64.2)	0.25 (49.2)	0.18 (36.1)	0.92 (181)	
A	0.75 (147.2)	0.56 (110.4)	0.25 (49.1)	0.19 (36.8)	0.14 (27.6)	0.68 (133)	
B	0.56 (110.4)	0.42 (82.8)	0.19 (36.8)	0.14 (27.6)	0.11 (20.7)	0.52 (102)	
C	0.41 (80.1)	0.31 (60.1)	0.14 (26.7)	0.10 (20.0)	0.08 (15.0)	0.38 (74)	
D	0.30 (58.5)	0.22 (43.8)	0.10 (19.5)	0.07 (14.6)	0.06 (11.0)	0.27 (53)	
W	0.21 (41.1)	0.16 (30.9)	0.07 (13.7)	0.05 (10.3)	0.04 (7.7)	0.19 (37)	
F	0.14 (28.1)	0.11 (21.1)	0.05 (9.4)	0.04 (7.0)	0.03 (5.3)	0.12 (23)	

Product information

Speed settings DC-EC300

Position of the speed and direction rotary switch	Speed of transport [m/s (ft/min)]		Rotation direction of the RollerDrive
	EC200 36:1 E	EC300 7.85:1	
0	0.44 (87)	2.0 (394)	
1	0.40 (79)	1.83 (360)	
2	0.37 (73)	1.68 (330)	
3	0.34 (67)	1.55 (305)	
4	0.28 (55)	1.27 (250)	
5	0.26 (51)	1.17 (230)	
6	0.24 (47)	1.08 (212)	
7	0.22 (43)	1.02 (200)	
8	0.44 (87)	2.0 (394)	
9	0.40 (79)	1.83 (360)	
A	0.37 (73)	1.68 (330)	
B	0.34 (67)	1.55 (305)	
C	0.28 (55)	1.27 (250)	
D	0.26 (51)	1.17 (230)	
W	0.24 (47)	1.08 (212)	
F	0.22 (43)	1.02 (200)	

Product information

Wiring diagrams



NOTICE

Damage to the DriveControl due to changing voltages.

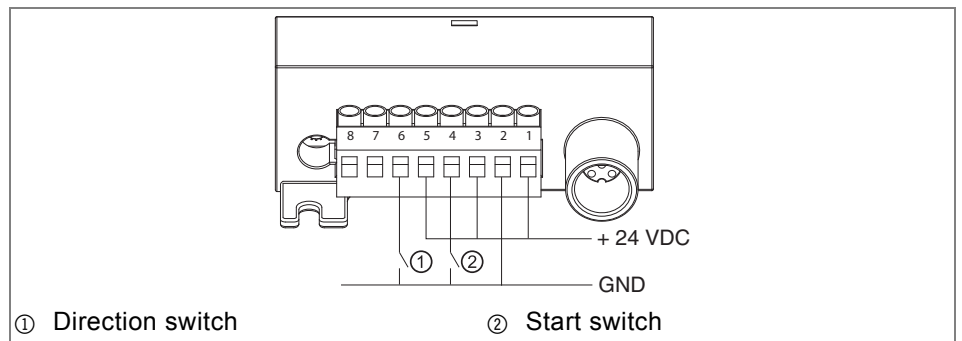
- Do not install a switch prior to pin 1.
- Always maintain the main power voltage.



A common ground is not necessary because of the galvanic separated outputs.

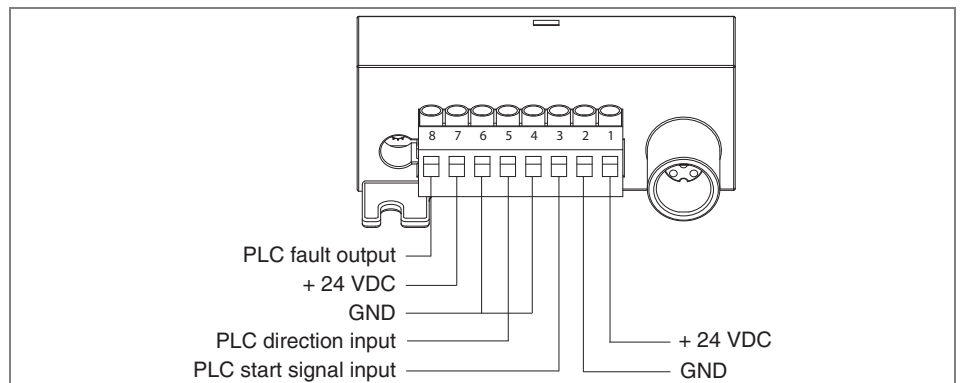
Simple connection

To start and stop the RollerDrive with an external switch, use the following wiring:



PLC connection

To control the RollerDrive with a PLC, use the following wiring:



Rotation direction:

- Pin 5 and 6 are engaged = counterclockwise direction
- Pin 5 and 6 are not engaged = clockwise direction



It is only possible to change the direction of transport externally when the speed and direction rotary switch is in position 0 through 7. In position 8 through F the priority of the switch is higher then the priority of the external signal.

External fault detection:

- In case of no fault, pin 7 and pin 8 are connected, the voltage drop between them will be about 0.7 V because of a diode.
- In case of fault, pin 7 and pin 8 are disconnected.

Transport and storage

Transport

- Each DriveControl is packed in its own carton case.



CAUTION

Risk of injury due to improper transport

- Transport may only be carried out by qualified and authorized persons.
 - Observe the following notices.
-
- Do not stack more than four carton boxes.
 - Check the fixation of the DriveControls before transport.
 - Avoid hard shocks during transport.
 - Check each DriveControl visually for damage after transport.
 - In case of damage, take photos of the damaged parts.
 - To maintain the warranty, instantly report any damage caused during transport to the transport company and to Interroll.
 - Do not transfer the DriveControls between warm and cold environments as this may cause condensing water.

Storage



CAUTION

Risk of injury due to improper storage

- Do not stack more than four carton boxes.
-
- Check each DriveControl for damage after storage.

Assembly

Warning notices concerning assembly

NOTICE

Risk of damage leading to failure or shortened life expectancy of the DriveControl

➤ Observe the following notices.

- Do not drop or mishandle the DriveControl to avoid internal damage.
- Check each DriveControl visually for damage before assembly.

Warning notices concerning the electrical installation

NOTICE

Risk of damage to the DriveControl

➤ Observe the following notices.

- The electrical installation may only be executed by qualified and authorized persons.
- Disconnect the power before installing, removing or rewiring the DriveControl.
- Do not apply AC current to the RollerDrive or DriveControl device at any time, as this will cause irreparable damage.
- Do not apply too much tension and pressure stress to the motor connector. Bending the cables at the connector can cause damage to the cable insulation, which could result in failure of the DriveControl or the RollerDrive.
- Ensure that the RollerDrive, the DriveControl and the 24 VDC power source are properly earthed through the frame or supporting structure in which the RollerDrive and the DriveControl are installed. Incorrect earthing can result in the buildup of static charge, which can cause the motor or DriveControl to malfunction or fail prematurely.
- Do not rotate the RollerDrive manually, as this generates a voltage which could damage the DriveControl.

Assembly

Installing the DC-EC200/300 in a conveyor system



Mounting hardware is not supplied with the DriveControl. Choose adequate screws and nuts for the 4 mm (0.15 in) wide flaps.

- Use the DriveControl as a template and mark the center of the three mounting flaps. For the distance between the holes, see "*Dimensions*", page 6.
- Drill three $\varnothing$ 3.5 - 4 mm (0.13 - 0.15 in) mounting holes at the marked spots.
- Insert the screws in the holes.
- Install the DriveControl to the frame with the screws protruding through the mounting holes.
- Slip the nuts to the screws and tighten.

Electrical installation

The connector supplied with the RollerDrive mates up with the header on the DC-EC200/300.

- Connect wires according the wiring diagram (see page 11) at the power supply and I/O terminals.
- Insert the RollerDrive connector.

Initial startup and operation

Initial startup

Inspections before initial startup

- Ensure that all bolts are tightened according to the specifications.
- Ensure that no additional dangerous areas arise due to interfaces with other components.
- Ensure that the wiring is in accordance with specifications and legal guidelines.
- Check all protection devices.
- Ensure that no bystanders are in dangerous areas around the conveyor.

Operation

NOTICE

Damage to the DriveControl or the motor of the RollerDrive due to induction

- Do not push items along the roller conveyor by hand.
- Do not spin the RollerDrive manually.

Inspections before every startup

- Check the speed and direction settings at the speed and direction rotary switch.
- Check the DriveControl for visible damage.
- Check all protection devices.
- Ensure that no bystanders are in dangerous areas around the conveyor.
- Clearly specify and monitor the way goods are placed on the conveyor.
- Make sure that the RollerDrive is not blocked.

Changing settings

- To change the speed or the direction of the RollerDrive manually, turn the speed and direction rotary switch with a small screwdriver (see "*Speed settings DC-EC200*", page 9 or see "*Speed settings DC-EC300*", page 10).

Maintenance and cleaning

Warnings concerning maintenance and cleaning



CAUTION

Risk of injury due to improper handling or accidental motor starts

- Maintenance work and cleaning may only be executed by qualified and authorized persons.
- Only perform maintenance work after switching off the power. Ensure that the DriveControl cannot be turned on accidentally.
- Set up signs indicating maintenance work.

Maintenance

Checking the DriveControl

The DriveControl must be checked at regular intervals to avoid malfunctions.

- Monthly check the DriveControl and its leads for visible damage.
- Annually ensure that the screws of the DriveControl are still tight and that the cables are still laid properly and connected to the terminals.

Replacing the DriveControl

If a DriveControl is damaged, it has to be replaced.

- Install a new DriveControl (see *"Abandonment"*, page 18 and see *"Installing the DC-EC200/300 in a conveyor system"*, page 14).

Cleaning

Dust and dirt in combination with humidity may bridge the electric circuit. Therefore, in a dirty environment, periodic cleaning will help to avoid short-circuits which could damage the DriveControl.

- Regularly blow off dust and dirt by using low compressed air.

Troubleshooting

Error search

Symptom	Possible cause	Help
System is not operating	No power supply	Check whether the output voltage of the power supply is within the specified voltage range.
	Fuse is blown	Replace the DriveControl.
RollerDrive is not in braking mode without any packages on the conveyor system	This is not an error. It is a power saving feature. The RollerDrive is in coast mode until it is commanded to run or accumulate.	

Abandonment and disposal

Abandonment



CAUTION

Risk of injury due to improper handling

- Abandonment may only be executed by qualified and authorized persons.
- Only abandon the DriveControl after switching off the power. Ensure that the DriveControl cannot be turned on accidentally.

- Disconnect all cables from the DriveControl.
- Unscrew the screws attaching the DriveControl to the conveyor frame.
- Extract the DriveControl from the conveyor frame.

Disposal

The operator is responsible for the proper disposal of the DriveControl. In doing so, industry-specific and local provisions must be observed for the disposal of the DriveControl and its packaging.

Appendix

Accessories

Wiring accessories

Part	Characteristics	Part #
Extension cable RollerDrive - DriveControl	Length 1600 mm	89VK

Power input and I/O terminal connector

Part	Characteristics	Part #
8-pin Lumberg Connector		KSC08P78
Power supply	230 V / 150 W / 24 VDC	89NT

Appendix

Installation Declaration

in accordance with the EC Machinery Directive 2006/42/EC, Appendix II B

The manufacturer:

Interroll Engineering GmbH
Hoeferhof 16
D - 42929 Wermelskirchen
Germany

hereby declares with sole responsibility that the product range

- DC-EC200
- DC-EC300

is not a ready-to-use machine as defined by the EC Machinery Directive and, therefore, does not fully comply with the requirements of this directive. Initial start-up of these conveyor modules is not permitted until conformity of the entire machine/system in which they are installed has been declared via the EC Machinery Directive.

The health and safety requirements as stated in Appendix I have been applied. The special technical documents as stated in Appendix VII B have been compiled and will be sent to the responsible authority if necessary.

Person authorized to compile the technical documents: Georg Malina, Interroll Engineering GmbH, Hoeferhof 16, D - 42929 Wermelskirchen

Applied EC directives:

- Machinery Directive 98/37/EC with the amendment 98/79/EC
- EMC Directive 2004/108/EC
- RoHS Directive 2002/95/EC

Applied harmonized standards:

- EN ISO 12100 Parts 1 and 2 "Safety of machinery - Basic concepts, general principles for design" - Part 1: "Basic terminology, methodology" - Part 2: "Technical principles"

Wermelskirchen, 31st March 2010

Armin Lindholm
(Managing Director)

(This declaration can be obtained at www.interroll.com, if needed.)

Appendix



Europe/Nordic

Denmark

Interroll Nordic A/S
Hammerholmen 2-6
DK-2650 Hvidovre/Denmark
Tel. +45 36 88 33 33
Fax +45 36 88 33 72
dk-sales@interroll.com

Interroll Service
Sortevej 40
DK-8543 Hornslet
Tel. +45 88 80 99 65
Fax +45 88 80 99 66
dk-sales@interroll.com

Iceland

IBH ehf
Dugguvogur 10
104 Reykjavik
Iceland
Tel. +354 562 6858
Fax +354 562 6862
ingi@ibh.ehf.is

Finland

Tel. +358 9 54 94 94 00
Fax +358 9 54 94 94 16

Norway

Tel. +47 32 88 26 00
Fax +47 32 88 26 10

Sweden

Tel. +46 35 227077
Fax +46 35 227078

Western/Southern Europe

France

Interroll S.A.S.
ZI de Kerannou
B.P. 34
F-29250 Saint Pol de Léon
Tel. +33 298 24 41 00
Fax +33 298 24 41 02
f-sales@interroll.com

Italy

Rulli Rulmeca S.p.A.
Via A. Toscanini, 1
I-24011 Almè (Bg)
Tel. +39 035 4300111
Fax +39 035 545523
i-sales@interroll.com

Portugal

Rulmeca Interroll de Portugal Lda
Apartado 69, Centro Cívico
P-6201-909 Covilhã
Tel. +351 275 330 780
Fax +351 275 990 789
p-sales@interroll.com

Spain

Interroll España S.A.
Parc Tecnològic del Vallès
C/Dels Argenters, 5
Edificio 1, módulos Bp y Cp
E-08290 Cerdanyola del Vallès
Tel. +34 90 211 0860
Fax +34 93 586 4895
e-sales@interroll.com

United Kingdom

Interroll Ltd.
Brunel Road
Earlstrees Industrial Estate
GB-Corby, Northants NN17 4UX
Tel. +44 1536 200 322
Fax +44 1536 748 515
gb-sales@interroll.com

Central Europe

Germany

Interroll Fördertechnik GmbH
Höferhof 16
D-42929 Wermelskirchen
Tel. +49 2193 23 0
Fax +49 2193 20 22
d-sales@interroll.com

Austria

Tel. +49 2193 23 187
Fax +49 2193 23 164

Belgium

Tel. +49 2193 23 131
Fax +49 2193 23 164

Luxembourg

Tel. +49 2193 23 190
Fax +49 2193 23 164

Netherlands

Tel. +49 2193 23 151
Fax +49 2193 23 164

Switzerland

Tel. +49 2193 23 190
Fax +49 2193 23 164

Eastern Europe

Czech Republic

Interroll CZ, s.r.o.
Na Řádku 7/3172
CZ-69002 Břeclav
Tel. +420 519 330 210
Fax +420 519 330 211
cz-sales@interroll.com

Hungary

Tel. +36 23 337 891
Fax +36 23 337 892

Poland

Interroll Polska Sp. z o.o.
ul. Płochocińska 85
PL-03-044 Warszawa
Tel. +48 22 741 741 0
Fax +48 22 741 741 1
pl-sales@interroll.com

Slovakia

Tel. +421 2 4363 8102
Fax +421 2 4342 7294

Slovenia

Tel. +386 1 56 56 370
Fax +386 1 56 56 372

Turkey

Rol-er Makina San. Ve. Tic. Ltd. Sti.
Pembegül Sok., Dostlar Apt.
No. 12 D. 10 Suadiye
347 40 İstanbul
Türkiye
Tel. +90 216 386 37 75
Fax +90 216 386 38 22
tr-sales@interroll.com

Near East

Israel

ComTrans-Tech Ltd.
P.O.B. 17433
Tel-Aviv 61174
Israel
Tel. +972 54 4 27 27 47
Fax +972 3 7 44 08 64
il-sales@interroll.com

Africa

South Africa

Interroll SA Pty. Ltd.
P.O. Box 327
Isando 1600
37 Director Road, Spartan Ext 2
1619
South Africa
Tel. +27 11 281 9900
Fax +27 11 252 9083
za-sales@interroll.com

North & South America

USA

Interroll Corporation
3000 Corporate Drive
USA-Wilmington, NC 28405
Tel. +1 910 799 11 00
Fax +1 910 392 38 22
usa-sales@interroll.com

Canada

Interroll Components Canada Ltd.
8900 Keele Street
Unit 2 & 3
Concord, Ontario L4K 2N2
Canada
Tel. +1 905 660 4426
Fax +1 905 660 4159
cdn-sales@interroll.com

Interroll Canada Ltd.
Drives & Rollers Canada
1201 Gorham Street
Newmarket Ontario L3Y 8Y2
Canada
Tel. +1 905 727 3399
Fax +1 905 727 3299
cdn-sales@interroll.com

Brazil

Interroll Logística Ltda.
Rua Dom João VI, 555
Parque Industrial S/A
Pindamonhangaba-SP
CEP 12412 - 805
Brazil
Tel. +55 12 3648 8021
sa-sales@interroll.com

For other countries in South America, please contact:

Interroll España S.A.
Parc Tecnològic del Vallès
C/Dels Argenters, 5
Edificio 1, módulos Bp y Cp
E-08290 Cerdanyola del Vallès
Tel. +34 90 211 0860
Fax +34 93 586 4895
e-sales@interroll.com

Asia

China

Interroll (Suzhou) Co. Ltd.
Unit 10B, Modern Industrial Square
No. 333 Xing Pu Road
Suzhou Industrial Park
Suzhou, Jiangsu Province
People's Republic of China
Postal Code: 215126
Tel. +86 512 6256 0383
Fax +86 512 6256 0385
cn-sales@interroll.com

Japan

Interroll Japan Co. Ltd.
302-1 Shimokuzawa
Sagamihara-shi
Kanagawa 229-1134
Japan
Tel. +81 42 764 2677
Fax +81 42 764 2678
jpn-sales@interroll.com

Korea

Interroll Korea Corporation
Room 301, Dongsan Bldg, 333-60
Shindang-Dong, Choong-ku
Seoul
Korea
Tel. +822 2 231 1900
Fax +822 2 254 36 83
kr-sales@interroll.com

Singapore

Interroll (Asia) Pte. Ltd.
386 Jalan Ibrahim
629156 Singapore
Republic of Singapore
Tel. +65 6266 6322
Fax +65 6266 6849
sgp-sales@interroll.com

Thailand

Interroll (Thailand) Co. Ltd.
41/6 Moo 6, Bangchalong,
Bangplee
Samutprakarn 10540
Thailand
Tel. +66 2 337 0188 91
Fax +66 2 337 01 92
th-sales@interroll.com

India

Interroll Drives and Rollers India Pvt Ltd.
SF 12, KSSIDC Building, 10th Main, III Stage
Peenya Indl. Estate
Bangalore - 560058
India
Tel. +91 80 2836 4996
Fax +91 80 4117 0559
in-drummotors@interroll.com

Australia & New Zealand

Australia

Conveyor Solutions Australia Pty. Ltd.
70 Keon Parade
Thomastown
VIC 3073
Australia
Tel. +61 3 9460 2155
Fax +61 3 9460 2029
aus-sales@interroll.com

New Zealand

Automation Equipment (NZ) Ltd.
45 Colombo Street
Frankton
Hamilton
New Zealand
Tel. +64 7847 2082
Fax +64 7847 7160
nz-sales@interroll.com

For other countries please
see contacts at
www.interroll.com